

PRODUCTION OF 1-HEXENE

Patent number: JP8183747
Publication date: 1996-07-16
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Classification:
- **international:** C07C11/107; B01J31/18; C07C2/32; C07B61/00
- **european:** C07C2/30; C07C2/36
Application number: JP19950141629 19950608
Priority number(s): JP19950141629 19950608; JP19940211457 19940905; JP19940269845 19941102

Also published as:

EP0699648 (A1)
US6521806 (B1)
EP0699648 (B1)

Abstract of JP8183747

PURPOSE: To provide a method for producing 1-hexene excellent in catalytic activity and selectivity and capable of suppressing the energy requirement for the separation and collection of the product low.

CONSTITUTION: This is a process for producing 1-hexene by trimerizing ethylene in a 1-hexene solvent, wherein a catalyst prepared by contacting the following (A), (B), (C) and (D) with each other in a 1-hexene solvent is used. (A) is a chromium-containing compound expressed by the general formula CrX_kY_m (X is a carboxylic acid residue, a 1,3-diketone residue, a halogen atom or an alkoxyl group; Y is an amine, a phosphine, a phosphineoxide, a nitrosyl group or an ether). (B) is a trialkylaluminum or a dialkylaluminumhydrido. (C) is a pyrrole or its derivative. (D) is a halide of an atom of the group 13 expressed by the general formula $MTtU_3$ -t (M is an atom of the group 13; T is an alkyl group, an aryl group, an allyl group or hydrogen atom; U is a halogen atom) or a halide of an atom of the group 14 expressed by the general formula $M'T't'U'_4$ -t' (M' is an atom of the group 14).

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